	Description of Item	No	L	B	D	QTY	Rate/Unit	Amount
	Supplying and fixing of Shunt trip suitable for MCCB.CBCT. (Pg.No:46 Item No.6.14)							
		3				3	1486.00	**4458.00**
							Each	
67	Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/manual reset facility suitable to mount on DIN rail/ flush mounting on panel board. (Pg.No:47 Item No.6.19)							
		1				1	**7998.00**	**7998.00**
							Each	
68	Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board. (Pg.No:48 Item No.6.2)							
		1				1	**390.00**	**390.00**
							Each	
69	Supplying, fixing and wiring 0 to 100amps Direct Reading AC analog type Ammeter (Pg.No:48 Item No.6.23)							
		1				1	**452.00**	**452.00**
							Each	
70	Supplying, fixing and wiring rotary selector switch suitable for Ammeter. (Pg.No:48 Item No.6.25)							
		1				1	**172.00**	**172.00**
							Each	
71	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter. (Pg.No:48 Item No.6.26)							
		1				1	**140.00**	**140.00**
							Each	
72	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. (Pg.No:48 Item No.6.36)							
		3				3	**442.00**	**1326.00**
							Each	
73	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. (Pg.No:49 Item No.6.38.1)							
	100Amps 4x30x6mm Aluminum Strips	1	2			2	**2135.00**	**4270.00**
							Mtr	
74	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. (Pg.No:49 Item No.6.39.1)							
	40x40x6mm	1	8			8	**263.00**	**2104.00**
							Mtr	

	Description of Item	No	L	B	D	QTY	Rate/Unit	Amount
75	Fabricating supplying and mounting MS box made out … SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. (Pg.No:49 Item No.6.4.2)							
	16SWG	1	65000			65000	**0.33**	**21450.00**
							Sqm	
76	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (Pg.No:47 Item No.6.16.1)							
	5-32Amps SP	28				28	**418.00**	**11704.00**
							Each	
77	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.III - Double Door (Pg.No:47 Item No.6.17.III.7)							
	4Way TP &N	3				3	**2399.00**	**7197.00**
							Each	
77a	40-63Amps TPN (Pg.No:47 Item No.6.16.6)	4				4	1936	**7744.00**
							Each	
78	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up to 300mA sensitivity on existing wood/panel board. (Pg.No:47 Item No.6.18)							
	63 Amps 4 pole	3				3	**3350.00**	**10050.00**
							Each	
	L.T.U.G CABLE							
79	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit … The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia (Pg.No:55 Item No.7.1)							
		1	2			2	**2727.00**	**5454.00**
							No	
80	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. GI strip (Pg.No:55 Item No.7.3 A)							
	25x3mm	1	30			30	**77.00**	**2310.00**
							Mtr	
80a	600x600x3mm GI Plate (Pg.No:55 Item No.7.3.A.5)	2				2	**784.00**	**1568.00**
							Each	
81	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. (Pg.No:55 Item No.7.4.6)							

	Description of Item		No	L	B	D	QTY	Rate/Unit	Amount
	3.5 core 35 sqmm								
			50				50	**204.00**	**10200.00**
								Each	
82	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.(Pg.No:61 Item No.7.8.A.2)								
	25 sqmm to 75 sqmm								
			1	16.2			16.2	**50.00**	**810.00**
								Mtr	
83	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) (Pg.No:61 Item No.7.9.1)								
	In soil (ordinary)								
			1	10			10	**78.00**	**780.00**
								Mtr	
84	Asphalt cutting (Pg.No:62 Item No.7.9.4)								
			1	10			10	**117.00**	**1170.00**
								Mtr	
85	Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150mm all-round the cable. (Pg.No:62 Item No.7.1)								
			1	10			10	**103.00**	**1030.00**
								Mtr	
86	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) (Pg.No:62 Item No.7.14)								
	32mm dia (Pg.No:62 Item No.7.14.3)								
			2				2	**122.00**	**244.00**
								Each	
87	Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets/Couplings/Tees/Bends/End-caps of same materials in existing trench as per IS 14930 part - II suitable for drawing underground cables.(Pg.No:63 Item No.7.20.2)								
	50mm OD / 38mm ID .								
			1	20			20	**151.00**	**3020.00**
								Mtr	
88	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. (Pg.No:64 Item No.7.21.4)								
	6 sqmm								
			4				4	**6.25**	**25.00**
								Each	
88a	10 sqmm (Pg.No:64 Item No.7.21.5)								
			16				16	**7.65**	**122.40**
								Each	
88b	35 sqmm Long Barrel (Pg.No:64 Item No.7.21.8)								
			8				8	**35.72**	**285.76**
								Each	
	FANS & AIR CONDITIONERS								
89	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete. (Pg.No:784 Item No.9.2.1)								

	Description of Item	No	L	B	D	QTY	Rate/Unit	Amount
	12" Sweep (300mm)							
		6				6	3654.00	21924.00
							Each	
89a	15" Sweep (450mm) (Pg.No:78 Item No.9.2.2)							
		2				2	4394.00	8788.00
							Each	
90	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm)(Pg.No:78 Item No.9.3.1.2)							
	Economy model							
		28				28	1900.00	53200.00
							Each	
	FIXING CHARGES							
91	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires. (Pg.No:108 Item No.17.1.2)							
	Using 32mm dia G.I.pipe							
		7				7	893.00	6251.00
							Each	
92	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. (Pg.No:108 Item No.17.7.1)							
	On wall / ceiling / Rafter / Girders							
		121				121	98.00	11858.00
							Each	
93	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring. (Pg.No:109 Item No.17.8)							
		28				28	139.00	3892.00
							Each	
94	Bescom Charges Including Meter Board							6970190
							30000.00	30000.00
							Each	
							SUB TOTAL	**683372.16**

6970190

(14)

	Description of Item	No	L	B	D	QTY	Rate/Unit	Amount
	Miscellaneous and rounding off						LS	55.00
							TOTAL AMOUNT	7000000.00
	(RUPEES SEVENTY LAKHS ONLY)							

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017 and approved rates.

7000000.00

Assistant Engineer 27/7/17
Yelahanka project
BBMP

Assistant Executive Engineer 27/07/17.
Yelahanka project
BBMP

Executive Engineer 27/7/17
Yelahanka project
BBMP

Technical Sanction
Accorded 170.00 lakhs
Head of A/c P3158
CER NO 168 Dt:. 01/08/17

TA to CE (YNK)